	Application No.	Applicant(s)		
Notice of Allowability	10/091,646	OZAWA ET AL.		
	Examiner	Art Unit		
	Dalei Dong	2879		
The MAILING DATE of this communication apperation apperation all claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with (OR REMAINS) CLOSED in or other appropriate commun GHTS. This application is su and MPEP 1308.	this application. If not included nication will be mailed in due co	urse. THIS	
1. This communication is responsive to Response filed on Jul	ly 6, 2006.			
2. \boxtimes The allowed claim(s) is/are <u>4 and 5</u> .				
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	n No	on from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA es reason(s) why the oath or	MINER'S AMENDMENT or NO declaration is deficient.	TICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on th the header according to 37 CFI	e drawings in the front (not the b R 1.121(d).	eack) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted. No LOGICAL MATERIAL.	ote the	
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Inf	ormal Patent Application (PTO-	-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		6. ☐ Interview Summary (PTO-413),		
Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material	Paper No./Mail Date			
	8. 🛭 Examiner's	8. Examiner's Statement of Reasons for Allowance		
	9. 🔲 Other	9. Other		

Art Unit: 2879

DETAILED ACTION

1. The Response filed on July 6, 2006, has been entered and acknowledged by the Examiner.

Election/Restrictions

2. This application is in condition for allowance except for the presence of claim 3 directed to a discharge beam estimating method, for an optical fusion splicer non-elected without traverse. Accordingly, claim 3 has been cancelled.

EXAMINER'S AMENDMENT

3. The application has been amended as follows:

Claim 4 (Currently Amended). A method for fusion splicing of an optical fiber using an optical fiber fusion splicer comprising a setting means for setting respective end surfaces of two optical fibers that are to be spliced in order to abut against each other, a heating means for generating an arc discharge between two discharge electrodes and heating an abutment portion of said optical fibers using a discharge beam, and an image pickup means for picking up an image of said discharge beam, the method comprising: measuring, from image signals obtained by said image pickup means when a preliminary arc discharge is generated between said discharge electrodes when no optical fibers have been placed in a discharge area, brightness distributions on a plurality of lines that are set at different positions along a rectilinear direction between said discharge electrodes and run in a direction substantially at right angles to the rectilinear direction; estimating a

Art Unit: 2879

heating center of the arc discharge along an axial direction of the optical fiber from the plurality of brightness distributions; controlling a position of said setting means along the axial direction of the optional optical fiber such that the abutment portion of said two optical fibers is positioned in the estimated heating center; and thereafter controlling said heating means such that a main arc discharge is generated and said abutment portion is heated by said discharge beam.

Allowable Subject Matter

- 4. Claims 4 and 5 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

Regarding to independent claim 4, prior art of record taken alone or in combination fails to teach or suggest a method for fusion splicing of an optical fiber using an optical fiber fusion splicer comprising: estimating a heat center of the arc discharge along an axial direction of the optical fiber from the plurality of brightness distributions; controlling a position of the setting means along the axial direction of the optical fiber such that the abutment portion of the two optical fibers is positioned in the estimated heating center, in combination with other claimed method of the present claimed invention.

Regarding to claim 5, is allowable because of the dependency upon the allowable independent claim 4.

Art Unit: 2879

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalei Dong whose telephone number is (571)272-2370. The examiner can normally be reached on 8 A.M. to 5 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (571)272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2879

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

D.D.

August 22, 2006

Kgularsay Karabi Guharay Primary Examiner Art Unit 2879 8/34/06